

2018 Annual Ongoing Data Requirements Report

**Data Requirements Rule for the 2010 1-Hour Sulfur Dioxide National
Ambient Air Quality Standard**



June 29, 2018

**Missouri Department of Natural Resources
Division of Environmental Quality
Air Pollution Control Program
P.O. Box 176
1659 East Elm Street
Jefferson City, Missouri 65102
Telephone (573) 751-4817**

Purpose and Background

The Missouri Department of Natural Resources' Air Pollution Control Program (air program) has prepared this report as the state's stand-alone Annual Ongoing Data Requirements Report for the 2010 1-Hour Sulfur Dioxide (SO₂) Primary National Ambient Air Quality Standard (NAAQS). This report is intended to fulfill the annual reporting requirements of 40 CFR Part 51 Subpart BB, "*Data Requirements Rule for Characterizing Air Quality for the Primary SO₂ NAAQS*". The Annual Ongoing Data Requirements Report is due to the EPA on July 1, 2018, to meet the reporting requirements in 40 CFR 51.1205 (b):

"(b) *Modeled areas.* For any area where modeling of actual SO₂ emissions serve as the basis for designating such area as attainment for the 2010 SO₂ NAAQS, the air agency shall submit an annual report to the Environmental Protection Agency (EPA) Regional Administrator by July 1 of each year, either as a stand-alone document made available for public inspection, or as an appendix to its Annual Monitoring Network Plan (also due on July 1 each year under 40 CFR 58.10), that documents the annual SO₂ emissions of each applicable source in each such area and provides an assessment of the cause of any emissions increase from the previous year. The first report for each such area is due by July 1 of the calendar year after the effective date of the area's initial designation."

In Missouri, Scott County is the only area subject to the Annual Ongoing Data Requirements Report that is due to EPA on July 1, 2018. Sikeston Power Station is the source that required modeling within this area. The air program submitted the first annual report for Scott County to EPA in 2017.

Technical Analysis

On June 30, 2016¹, the Environmental Protection Agency (EPA) designated Scott County, Missouri as attainment/unclassifiable for the 2010 SO₂ NAAQS based on EPA's technical assessment of the air program's submittals regarding the air quality surrounding the Sikeston Power Station and the rest of Scott County. The air program's analysis was based on modeling of actual SO₂ emissions (2012-2014) from sources in and around Scott County. Therefore, this area is subject to the ongoing verification requirements under 40 CFR 51.1205(b), and the air program is submitting this Annual Ongoing Data Requirements Report to meet the reporting requirements for *modeled areas*².

¹ This date appeared on EPA's designation letter to Missouri. Also, see [81 FR 45039, July 12, 2016]. Two other areas in Missouri were designated as unclassifiable at the same time; however, the annual ongoing report requirements of 40 CFR 51.1205 (b) do not apply to unclassifiable areas.

² In 2018, more areas in Missouri, including Barton, Greene, Henry, Jasper, Randolph Counties, and a portion of St. Louis County, were designated attainment/unclassifiable based on modeling. [83 FR 1098, January 9, 2018] The first ongoing reports for these additional areas will be due on July 1, 2019.

Per 40 CFR 51.1205 (b), the air program is required to document the annual SO₂ emissions of each applicable source in the *modeled areas*. Table 1 lists Sikeston Power Station within the Scott County *modeled area* and details its annual actual SO₂ emissions in tons from 2012 to 2016. The air program acquired all the emission data from the Missouri Emissions Inventory System (MoEIS) and confirmed the emission data matched the one in EPA's Clean Air Market Division (CAMD) database. The table shows that the annual emissions from the Sikeston Power Station in 2012 and 2013 are less than the annual emissions in 2015 and 2016.

In the modeling the air program performed for the initial designations, the maximum-modeled design value for the area was 37.2 parts per billion (ppb). Last year, the air program updated modeling for Scott County and included it in last year's annual report. The maximum-modeled design value for the updated modeling was 35.7 ppb. The air program's original and subsequent modeling results utilized 2012-2014 and 2013-2015 years' emissions, respectively. Both analyses resulted in maximum-modeled design values well below the level of 1-hour SO₂ NAAQS (1-hour SO₂ NAQQS is 75 ppb).

If the air program modeled the area based on 2014-2016 emissions, the results would differ from last year's by replacing the 2013 emissions with the 2016 emissions. However, 2016 SO₂ emissions in Scott County were approximately 1,100 tons less than emissions in 2013. As such, any updated modeling analysis would only show a lower maximum-modeled design value for the area as compared to last year's analysis. Therefore, the air program has determined that no additional modeling analysis is necessary to ensure the EPA's original attainment/unclassifiable designation for the Scott County *modeled area*.

Table 1. Annual Actual SO₂ Emissions in Scott County and Previous Modeled Design Values

Modeled area	Source (Facility ID)	Actual SO ₂ emission from MoEIS (tons/year)					Maximum-modeled design value (ppb)	
		2012	2013	2014	2015	2016	2012-2014	2013-2015
Scott County	Sikeston Power Station (201-0017)	5,243	5,967	6,651	4,789	4,837	37.2	35.7

Public Inspection Period

As required in 40 CFR 51.1205 , the air program has made this stand-alone report available for public inspection and comment for at least thirty (30) days, starting from May 23 to June 22, 2018. No comments were received.